

August 20, 2015

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee  
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SUBJECT: Scheduled Operational Changes and Upgrades for  
CPC, OPC, and WPC

The following accelerated items were implemented this past week:

RFC #412 – The OPC script which processes the Navy Gulf Stream file was modified to limit the number of points in the VGF file to < 500 so that the VGF file will work in NMAP. Implemented on August 14 at 1800Z. (OPC)

RFC #413 – Added logic to the ERF Auto-forecast to keep it from running after 1440Z. This was required after determining it was impossible to make the timing of this script such as to produce final output by 1430Z with any certainty. This is a stop-gap until a redesigned version of this process can be implemented. This RFC was implemented on August 18 at 1200Z. (CPC)

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The following will be implemented the weeks of August 24, 2015 or August 31, 2015:

RFC #414 - Because of the termination of the Short Term Weather charts on September 1, AWC will need the 5km NDFD weather type which WPC uses to create their web graphics. A DBNet alert will be added to script 'degrib\_ndfd' on the Compute Farm for the 5km NDFD grids. See NCO RFC #1230 for the Dataflow work to route the grids to AWC. WPC RFC to be implemented on August 24 at 1500Z. (WPC)

RFC #415 - Update scripts for WPC's Winter Weather Desk to accommodate the change to 24-hour coverage of the desk by WPC staff. Previously, WPC issued Day 1-3 forecasts twice daily. With 24-hour coverage, WPC forecasters will issue updates when needed, so the scripts need to be updated to check the issuance times. To be implemented on August 25 at 1500Z. (WPC)

RFC #416 - Update scripts for the Day 4-7 winter weather outlook. Changes are being made to accommodate new threshold probabilities (changed from .1 to .25) and make new VGF files for freezing rain (ZR threshold is .05). To be implemented on August 25 at 1800Z. (WPC)

RFC #417 - ER Obs Ptile v0.2 – Install software to provide new functionality of Extended Range observations in percentile format, to support forecast operations. To be implemented on August 25 at 1800Z. (CPC)

RFC #418 - Add an NMAP2 display of WPC average Snow Liquid Ratio (SLR). GRIB2 data for this parameter is already sent to the WFOs, but this display is needed in 6-hr intervals for WPC forecasters. Implementation to begin on August 27 at 1600Z and be completed by 2200Z on September 1. (WPC)

RFC #419 - The forecaster-drawn Short Term Weather chart is being terminated and replaced by the NDFD Weather Type. Three WPC scripts are being changed and the short-range forecast weather web page will be modified to display the NDFD graphics only or redirect to NDFD from the removed graphics. To be implemented on September 1 at 1200Z. (WPC)

RFC #420 - Modify NMAP stored procedure files (SPFs) to use new GOES-E and GOES-W satellite sectors. Also modify the 'sendsfc' script to use the new sectors for web images. To be implemented on September 1 at 1200Z. (WPC)

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The following CPC OPC WPC RFC(s) are in progress:

RFC #384 – The salinity fields in NOS's CBOFS model have drifted this summer by about 4 PSU, negatively impacting the Ecological Forecasts which use the CBOFS for Vibrio Vulnificus and Sea Nettle forecasts. A bias correction has been developed by the Ecological Forecast Pathogens group. This correction will be applied every 2 weeks through early fall or until the CBOFS model has been corrected. The Vibrio and Sea Nettles web pages will be restarted each time after the salinity correction has been implemented. Implementation began on July 22 at 2100Z and should be completed by October 27. (OPC)

RFC #394 – Making changes to support the NMFS Winter Cruise aboard the Research Vessel/Ice Breaker (RVIB) Nathaniel Palmer off Antarctica. Modify the image creation script to include 24 hours. Modify the email table to include the requested products and recipients. Activate 'auto\_antarctica.pl' and 'GRtofs\_AntarcticImages.csh' scripts in cron on IDP. Disable the same crons at the end of the cruise (1 Sept 2015). Implemented on July 30 at 1130Z and will be backed out on September 1. (OPC)

RFC #403 - Update NMAP2 to display the parallel versions of the GEFS and ETSS models. ETSS was implemented on August 17 at 1130Z. GEFSp will be implemented at a date TBD because the amount of data being disseminated off of WCOSS overwhelmed DBNet. (OPC)

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The following NCO RFCs to be implemented the weeks of August 24, 2015 or August 31, 2015 may affect CPC, OPC, and/or WPC:

RFC #1225 - WCOSS Dataflow v1.63.11 - Modify DBNet on WCOSS to replace the 2.5 deg GFS with the 0.25 deg GFS and add NAM and high resolution ETSS to NTBN, OPCN, and HPCN. To be implemented on August 24 at 1200Z.

RFC #1230 - NCOSRV Dataflow v2.6.22 – Modify DBNet on NCOSRV to save new NDFD 5km grids from WPC. These grids will be available to NCWCP users and AWC. To be implemented on August 25 at 1200Z.

RFC #1233 - ECMWF\_MOS v1.0.4 – Add alerts for files 'mdl\_ecmtxt.t00z' and 'mdl\_ecmtxt.t00z.tran'. These 2 ECMWF MOS ensemble files were requested by WPC. To be implemented on August 25 at 1200Z.

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The following NCO RFC(s) are in progress and may affect the local Centers:

RFC #1096 – WCOSS: SP5 Software Upgrade v5.0 - IBM will apply the Service Pack 5 software upgrade to the WCOSS systems. Included in this upgrade are changes to RHEL, GPFS, IBM PE, IBM xCAT and several other components. IBM software support has released its latest HPC software stack service pack and is urging all x86\_64 based Infiniband HPC Cluster customers to apply it to maximize product support, and address some known system issues. The upgrade on Gyre will be implemented in late August/early September (exact dates TBD). There will be a 2-day outage on Gyre when the work is being done.

RFC #1156 – WCOSS: TO4 network tie-in – Connect the Cray systems' Ethernet and Infiniband networks to WCOSS Phase 1 and Phase 2 network infrastructure. Work was completed on the Reston, VA systems in early August. The date for this work in Orlando is TBD and will include a 1-day outage of WCOSS (Gyre) that day.

RFC #1189 – WCOSS Dataflow v1.63.8, NCOSRV Dataflow v2.6.21 - The DBNet software on WCOSS and NCOSRV is being modified to begin sending datasets from the parallel Global Ensemble Forecast System (GEFS) for evaluation. Implementation began on August 11 at 1200Z and should be completed by September 1.

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Please note that security-related RFCs are never listed in the RFC memo.

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---- OPERATIONAL ANNOUNCEMENTS ----

1. The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.